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PN - JP10155493 A 19980616
TI - GENE CODING FOR PHOSPHOLIPASE A1 DERIVED FROM ASPERGILLUS
R - C12N15/00&A+2NA; C12N15/00; C12N9/16&D; C12N9/16; C12N1/19; C12N5/00&B; C12R1/69; C12R1/865; C12R1/91;
C12N5/00
PA - SANKYO CO
IN - KOISHI RYUTA; SERIZAWA NOBUKI; SHIBA YOICHIRO; TSUJI TOSHIKI; WATANABE ICHIRO; YAO YOSHIO; YOSHIKAWA HIROMI
AP - JP18970270967 19971003
PR - JP19970270967 19971003; JP19960264241 19961004
DT - I

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AN - 1998-091046 [34]
TI - Aspergillus-derived phospholipase A1 gene - used for the recombinant production of phospholipase A of high purity and in a high yield
AB - J10155493 DNA (I) encoding a mature phospholipase A derived Aspergillus oryzae, having amino acids 27-295 of a 295 amino acid (aa) sequence given in the specification, is new.
More specifically, (I) is an 888 base pair cDNA sequence encoding an immature form of phospholipase A (the 295 aa sequence including a 26 aa signal peptide).
Also claimed are: (1) a recombinant DNA vector containing (I); (2) a host cell transformed by the vector of (1); and (3) a recombinant polypeptide prepared by gene manipulation containing the mature phospholipase A protein in which at least one aa is replaced, deleted or inserted at one or more sites.
Phospholipase A can be prepared by culturing the host cells of (2) and collecting the host cell from the culture (claimed).
USE - (I) can be used to produce recombinant phospholipase A of high purity and in a high yield.
ADVANTAGE - The method can prepare recombinant PLA1 of high purity in a high yield commercially.
(Dwg. 0/6)
IW - ASPERGILLUS DERIVATIVE PHOSPHOLIPASE GENE RECOMBINATION PRODUCE PHOSPHOLIPASE HIGH PURE HIGH YIELD
PN - JP10155493 A 19980616 DW199834 C12N15/09 023pp
IC - C12N1/19; C12N5/10; C12N9/16; C12N15/09
MC - B04-E02E B04-E02F B04-L05A0E D05-C03C D05-H12A D05-H12E D05-H14A1 D05-H17A3
DC - B04 D16
PA - (SANY) SANKYO CO LTD
AP - JP18970270967 19971003
PR - JP19960264241 19961004

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PN - JP10155493 A 19980616
TI - GENE CODING FOR PHOSPHOLIPASE A1 DERIVED FROM ASPERGILLUS
AB - PROBLEM TO BE SOLVED: To obtain the subject new gene consisting of a DNA coding for a phospholipase-active polypeptide derived from the genus Aspergillus having a specific amino acid sequence, capable of giving an enzyme for producing lysophospholipid useful as e.g. a surfactant for foods.
SOLUTION: This new gene consists of a polypeptide containing an amino acid sequence indicated by amino acid numbers 1 to 269 and shown by the formula, and having phospholipase activity, or consists of such an amino acid sequence that one or more amino acids are replaced, deleted or inserted at one or more sites on the above-mentioned amino acid sequence of the formula, coding for polypeptide having phospholipase activity, and being useful for e.g. producing phospholipase A1 to be used for producing lysophospholipid useful as a surfactant for foods. This gene is obtained by screening the chromosome DNA of Aspergillus oryzae SANK 11870 (FERM BP-3867) strain by use of a probe.
C12N15/09; C12N1/19; C12N5/10; C12N9/16
C12N15/09 C12R1/69
C12N1/19 C12R1/865
C12N5/10 C12R1/81
C12N9/16 C12R1/91
C12N9/16 C12R1/69
C12N9/16 C12R1/865
PA - SANKYO CO LTD
IN - WATANABE ICHIRO; KOISHI RYUTA; YAO YOSHIO; TSUJI TOSHIKI; SERIZAWA NOBUKI; SHIBA YOICHIRO; YOSHIKAWA HIROMI
ABD - 19980930
ABV - 199811
AP - JP18970270967 19971003

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